

Q 1 Which of the following is a type of rectifier

A half wave

B full wave

C bridge

D All of the above

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Q 2

What will happen in a time of 7 hours, if a radioactive substance has an average life of 7 hours?

A

Half of the active nuclei decay

B

less half of the active nuclei decay

C

more than half of the active nuclei decay

D

total nuclei decay

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Q 3

The characteristic x-rays are formed due to bombardment of ____

A

photon

B

proton

C

electron

D

none of these

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Q 4

The SI Unit for resistance is?

A

Ohm

B

Ampere

C

Watt

D

Volts

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Q 5

The distance between two consecutive crests of a travelling wave is 10 cm. If the speed of the wave 50 cm/s, then its frequency would be:....

A

40 Hz

B

1/5 Hz

C

5 Hz

D

500 Hz

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Q 6

Object A has a charge of 15 mC, and object B has a charge of 10 mC. Which statement is true about the electric forces on the objects?

A $F_{AB} = -3 F_{BA}$

B $F_{AB} = - F_{BA}$

C $3 F_{AB} = - F_{BA}$

D $-3 F_{AB} = 2 F_{BA}$

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Q 7

A wire of uniform area of cross-section A and length L is cut into two equal parts, the resistivity of each part is

A

Doubled

B

Half

C

Remains the same

D

increase three times

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Q 8

Which source is associated with a line emission spectrum

A

electric signal

B

neon street signal

C

red traffic light

D

signal

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Q 9

For ideal step up transformer P_s ___ P_p .

A

equal to

B

greater than

C

less than

D

none of these

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Q 10

All changes which occur suddenly or which involve friction or dissipation of energy through conduction, convection or radiation are:....

A irreversible changes

B chemical changes

C cyclic changes

D reversible changes

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Q 11

If an object moves with constant velocity then its acceleration is

A

zero

B

nonzero

C

infinite

D

none of these

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Q 12

A body performing circular motion with a constant speed has a constant :

A momentum

B angular velocity

C acceleration

D radius vector

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Q 13

"The heat required to raise the temperature of one mole of the substance through 1 K" is called:...

A

specific latent heat

B

molar heat capacity

C

molar specific heat

D

specific heat capacity

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Q 14

Centrifuge is used to purify

A

U

B

H

C

O

D

N

13

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Q 15

Magnetic flux density is a

A

scalar quantity

B

vector quantity

C

sometimes scalar sometimes vector

D

none of these

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Q 16

The engine is supposed to work between 727 degree C and 227 degree C, then maximum possible efficiency is

A $\frac{1}{2}$

B $\frac{1}{4}$

C $\frac{3}{4}$

D 1

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Q 17

A test charge of $23\ \mu\text{C}$ is at a point P where an external electric field is directed to the left and has a magnitude of $3.1 \times 10^6\ \text{N/C}$. If the test charge is replaced with another test charge of $13\ \mu\text{C}$, what happens to the external electric field at P?

- A it remains same
- B it reverses direction
- C it changes in a way that cannot be determined
- D $3.1 \times 10^5\ \text{N/C}$

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Q 17

A test charge of $23\ \mu\text{C}$ is at a point P where an external electric field is directed to the left and has a magnitude of $3.1 \times 10^6\ \text{N/C}$. If the test charge is replaced with another test charge of $13\ \mu\text{C}$, what happens to the external electric field at P?

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- B it reverses direction
- C it changes in a way that cannot be determined
- D $3.1 \times 10^5\ \text{N/C}$

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Q 18

If $r=1\text{m}$ and $\theta=1$ degree then what is the value of S

A

0.01745m

B

1m

C

2m

D

None

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Q 19

The star which is very hot will emit ____ color

A

Blue

B

red

C

orange

D

green

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Q 20

How many down quarks in Neutron

A

1

B

2

C

3

D

4

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Q 21

A stone of 1 kg is thrown upward it reaches a max height of 5 m , work done by the gravity is

A

50 J

B

49 J

C

-49 J

D

55 J

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Q 22

Light of wavelength 450 nm is incident on a diffraction grating on which 5000 lines/cm have been ruled. How many orders of spectra can be observed on either side of the direct beam?

A 1

B 2

C 3

D 4

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Q 23

A gardener move a lawn roller through a distance of 50 m. Applied force is 50 N inclined at 60 degree of direction of motion what will be the work done by the gardener

A 1250 J

B 2500 J

C -1250 J

D -2500 J

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Q 24

The value of acceleration due to gravity on earth is

A

5 m/s²

B

6m/s²

C

15m/s²

D

9.8 m/s²

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Q 25

Ripple factor of full wave rectifier is

A

1.21

B

0.6

C

0.482

D

0.9

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Q 26

If $P = P_0$ and $V = V_0$ gas expands isothermally to $P = 3P_0$ then Volume is

A $3V_0$

B $2V_0$

C $V_0/3$

D $V_0/2$

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Q 27

Newton's second law states that the rate of change of _____ is equal to external force

A

velocity

B

Mass

C

momentum

D

position

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Q 28

If the peak to peak voltage is 10V, calculate the peak voltage.

A

2V

B

10V

C

4V

D

5V

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Q 29

The specific resistance of a rod of copper as compared to that of thin wire of copper is :

A

less

B

more

C

same

D

depends upon the length and area of cross-section of the wire

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Q 30

Total charge on any nucleus is

A

Ne

B

Wq

C

Ze

D

ne

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Q 31

When a body moves in a circle of radius r with angular speed ω , its centripetal acceleration is

A

ωr

B

$\omega^2 r$

C

ωr^2

D

ω/r

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Q 32

Energy of photon is directly proportional to its :

A

Temperature

B

Frequency

C

Wave length

D

None of the above

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Q 33

A rectangular loop of dimension 3 cm by 5 cm is placed perpendicular in uniform magnetic field of 0.1 T, find the magnetic flux through the loop

A 1.5 wb

B 0.15 wb

C 0.015 wb

D 15 wb

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Q 34

Superposition of two waves having same frequency, same amplitude and travelling in the opposite direction, is called:

A interference

B diffraction

C beats

D stationary waves

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Q 35

Find the force due to a current element of length 2 cm and flux density of 12 tesla. The current through the element will be 5A.

A 1N

B 1.2N

C 1.4N

D 1.6N

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Q 36

In single slit diffraction, when wavelength λ increases:

- A width of central maxima increases
- B width of central maxima does not change
- C central maxima becomes brighter
- D width of central maxima decreases

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Q 37

The minimum indivisible unit of charge is:....

A

one coulomb

B

charge on one alpha particle

C

charge on one proton

D

one micro coulomb

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Q 38

If a certain piece of copper is to be shaped into a conductor of minimum resistance, its length (L) and cross-sectional area (a) shall respectively be

A $L, 2A$

B $L/2, 2A$

C $2L, 2A$

D $2L, A/2$

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Q 39

Instantaneous velocity is defined as

A

$$dx/dt$$

B

$$\Delta x/\Delta t$$

C

$$\Delta x.\Delta t$$

D

$$\Delta v/\Delta t$$

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Q 40

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A $10\sqrt{2}$

B $20/\sqrt{2}$

C $20/\pi$

D 20π

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Q 41

In which rectifier ripple factor is less

A

full wave

B

half wave

C

both a) and b)

D

none of them

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Q 42

Oil droplets of mass m and charge q are dropped between two horizontal parallel plates. Air resistance is negligible. The droplets are falling at constant velocity when electric field strength between the plates is E . Which of the following is true?

A $E=0$

B $E < mg/q$

C $E = mg/q$

D $E > mg/q$

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Q 43

If a car moves from 15 m/s to 5 m/s in 10 sec then average acceleration is

A

1 m/s²

B

2m/s²

C

5 m/s²

D

10m/s²

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Q 44

A resistance of 40 Ohms is attached to a circuit having current of 300 Amp, Find its voltage.

A

12000 volts

B

15000 volts

C

20000 volts

D

300 volts

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Q 45

Magnetic force between two wires which are having current in opposite direction will

A attract each other

B repel each other

C experience no force between them

D none of these

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Q 46

A tuning fork A produces 4 beats with another tuning fork B. if the frequency of tuning fork B is 320 Hz, then the frequency of tuning fork A is:

A 320×4

B $320 / 4$

C $320 + 4$

D 320

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Q 47

The activity of a certain nuclei decreases to 15 % of its original value in 10 days. Find its half life?

A

2 days

B

2. days

C

3.65 days

D

4 days

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Q 48

Two tuning forks produces N beats. If one of these tuning forks has the frequency f , then the frequency of the other would be:

A $N - f$

B N / f

C $N * f$

D $N + f$

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Q 49

A half wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A

100 Hz

B

25 Hz

C

200Hz

D

50Hz

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Q 50

Kinetic energy of the body is increased by the 21 %. what is the percentage change in the linear momentum of the body

A 0.21

B 0.22

C 0.11

D 0.1

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Q 51

4000 Coulomb charges were passing from the wire for about 12 seconds. Estimate the current during this process?

A 333.3 ampere

B 333.33 volts

C 666.67 ampere

D None of them

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Q 52

Radiation emitted by hot bodies have color

A

red

B

green

C

blue

D

black

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Q 53

Radioactive material decays by simultaneous emission of two particles with respective half-lives 1620 and 810 years. The time, in years, after which one-fourth of the material remains?

A 1080

B 2430

C 3240

D 4860

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Q 54

P-V diagram of a diatomic gas is a straight line passing through origin. What is the molar heat capacity of the gas in the process?

A R

B $1.5R$

C $3R$

D $4R/3$

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Q 55

gamma rays are attracted towards

A

negative plate

B

positive plate

C

no deflection

D

pass through the medium

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Q 56

If angular frequency is doubled, centripetal force is

A

twice

B

four times

C

eight times

D

remain same

55

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Q 57

The outermost s and p orbitals of Noble gases are completely filled that why they are

A stable, reactive

B stable ,uncreative

C unstable, reactive

D unstable ,uncreative

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Q 58

When an electron remains between orbit, its momentum is

A dequantized

B quantized

C emitted

D changes always

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Q 59

Specific Rate constant changes its value with

A

Time Constant

B

Change in Temperature

C

Change in Concentration

D

Change in Pressure

58

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Q 60

Butyric acid is derived from the word butyrum which means_____?

A

Milk

B

Butter

C

Cheese

D

None of these

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Q 61

Molecules of liquids are in constant state of motion, it causes

A diffusion

B evaporation

C melting

D both A & B

60

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Q 62

The forces present within a molecule are called as _____?

A

Intermolecular forces

B

Van der Waal forces

C

Chemical bond

D

Weak forces

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Q 63

Molten sodium burns with brilliant yellow flame in a chlorine atmosphere to form ____?

A

NaCl

B

NaOH

C

NaBr

D

ClO

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Q 64

Which of the uranium isotope have larger mass.

A

6.22×10^{23} atoms of U - 235

B

6.22×10^{23} atoms of U - 238

C

6.22×10^{23} atoms of U - 234

D

all of these

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Q 65

During industrial preparation of methanol, the catalyst is heated upto

A

4 - 5 'C

B

5 - 55 'C

C

45 - 5 'C

D

35 - 4 'C

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Q 66

On earth, plasma occurs in few limited places like

A auroras'

B flames

C bolts

D all of these

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Q 67

Left handed helix in proteins secondary structure is called as ____?

A

Alpha helix

B

Beta helix

C

Spiral

D

Concentrate

66

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Q 68

A very small value of K_c depicts

A

No Reaction

B

Backward Reaction

C

Little Forward Reaction

D

Complete Reaction

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Q 69

The compound or complex ion which has a ring in its structure

A

Polydentate ligand

B

Chelate

C

Monodentate ligand

D

Hydrate

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Q 70

Non- protein part co- factor includes organic & metallic organic molecule & sometimes_____.

A Vitamins

B DNA

C Coenzyme

D None

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Q 71

Which of the following method is used to prepare Ethylene glycol from ethene?

A Dehydration

B Hydroxylation

C Hydration

D Luca's test

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Q 72

1st series of transition elements start from?

A

Sc

B

Y

C

La

D

Cd

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Q 73

Enthalpy of a system is also called as ____?

A

Entropy

B

Work function

C

Total heat content

D

Internal energy

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Q 74

Which of the following ion is stable ?

A

Ethoxide ion

B

Tertiary Alkoxide ion

C

Secondary anion

D

Phenoxide ion

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Q 75

Nucleophilic reactions of carboxylic acids are due to_____?

A

Presence of OH bond

B

Presence of C-O single bond

C

Presence of C-O double bond

D

None of these

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Q 76

In diaphragm cell level of brine in the anode compartment is kept slightly higher which prevents

A Hydroxide ions to reach the anode

B Chlorine gas to mix

C Cathode to decay

D All of the above

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Q 77

Greater the number of moles ,_____ will be the number of molecules

A

lesser

B

moderate

C

greater

D

equal

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Q 78

How will the conditions be changed to prevent the volume of the given gas from expanding when its mass is increased

A

temperature and pressure increased

B

temperature is lowered and pressure decreased

C

temperature and pressure increased

D

temperature is lowered and pressure increased

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Q 79

Aldehydes are obtained by the oxidation of which of the following ?

A

Secondary alcohols

B

Tertiary alcohols

C

Dihydric alcohol

D

Primary alcohols

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Q 80

Rate constant is denoted by?

A

k

B

kr

C

kv

D

ks

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Q 81

Rate = $k [\text{NO}_2]$, the order of this reaction is

A

Zero

B

Two

C

Three

D

One

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Q 82

Benzene is extra stable because of _____?

A

Cyclic structure

B

Three alternating double and single bonds

C

Delocalization of pi-electrons

D

All of these

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Q 83

In the reaction of NaBH_4 with aldehyde and ketones, which of the following act as Nucleophile ?

A

B^-

B

H^-

C

BH_2^-

D

NaBH_3^-

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Q 84

If a hydrogen atom remains in its first excited level, how many times will its radius be greater than Bohr's radius

A

twice

B

four times

C

same, same

D

eight times

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Q 85

Glass is an example of

A ionic solid

B covalent solid

C pseudo solid

D semisolid

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Q 86

The electron affinity of fluorine is less than chlorine as we move down the group, this deviation in behavior is due to its

A small size

B seven electron

C thick electronic cloud

D all of these

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Q 87

Electron affinity is the measure of ____ for extra electron

A

repulsion of electron

B

attraction of electron

C

attraction of nucleus

D

repulsion of nucleus

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Q 88

In the enthalpy relation, $\Delta H = (q)_p + \Delta(PV)$ the value $\Delta(PV)$ can be neglected for the reactions involving ____?

A

Gases

B

Liquids

C

Liquids and solids

D

Liquids and Gases

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Q 89

Hydrogen bonding is involved in

A

cleansing action of soap

B

biological molecule

C

solubility

D

all of these

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Q 90

How many molecules of H_2 adds in acetylene to form ethane?

A

1

B

3

C

4

D

2

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Q 91

A full stop may have _____ atoms present in it

A

one million

B

two millions

C

one billion

D

two billions

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Q 92

Which of following is trihydric alcohol

A

Glycol and cyclohexanol

B

glycerol

C

ethylene glycol

D

resorcinol

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Q 93

What is the value of molecularity and order of S_N1 reactions?

A 2,1

B 1,1

C 0,1

D 0,2

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Q 94

How many organic compounds are known_____?

A

850000

B

Over 6 million

C

6 million

D

5 million

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Q 95

Water is considered as a Universal solvent because of which properties?

A

Polar nature of water

B

H-bonding

C

Electronegativity difference

D

All are correct

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Q 96

With which of the following Grignard reagents react to form Alkanes ?

A Ammonia

B Water

C Methanol

D All of these

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Q 97

Solubility of carboxylic acids _____?

A

Decreases with increase of volume

B

Decreases with increase in molecular mass

C

Increases with increase in molecular mass

D

None of these

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Q 98

Arrangement of metals on the basis of their electrode potentials on standard hydrogen scale is called

A

Reactivity Series

B

Potential Difference

C

Activated Potential

D

Electrochemical Series

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Q 99

Formic acid is obtained from _____?

A

Apples

B

Butter

C

Ant's sting

D

Foam

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Q 100

Among halogens iodine is solid at room temperature while Br_2 is liquid and Cl_2 and F_2 are gases at room temperature, why?

A Due to stronger dipole forces

B Due to polarity

C Due to stronger London forces

D Due to stronger Debye forces

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Q 101

Which of the following family is linked with plant ashes ?

A Nitrogen Family

B Alkali metals

C Rare earth metals

D Oxygen Family

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Q 102

Brass and bronze have one metal in common?

A Zn

B Hg

C Cu

D Fe

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Q 103

Caustic Soda is made by electrolysis of concentrated solution of NaCl in

A Nelson's Cell

B Hg - Cell

C Castner Kellner Cell

D All of these

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Q 104

In which of the following benzene is isolated?

A Naphthalene

B Diphenyl ethane

C Phenanthrene

D Anthracene

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Q 105

Carboxylase are example of which type of enzyme:

A Hydrolases

B Lyases

C Transferases

D Ligases

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Q 106

The catalyst in the formation of ester from alcohol and a weak acid is

A

A base

B

Palladium

C

Nickel

D

A mineral Acid

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Q 107

Quantum number values for 2p orbitals are

A

$n = 2, l = 1$

B

$n = 1, l = 2$

C

$n = 1, l =$

D

$n = 2, l =$

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Q 108

As the hydrolysis of ester proceeds more and more acid is formed giving a

A Rising curve

B Falling Curve

C Straight line

D None of these

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Q 109

If in a solution of alkyl halide in a nonpolar solvent, base is added which of the following reaction takes place?

A $\text{S}_{\text{N}}2$

B E_1

C $\text{S}_{\text{N}}1$

D E_2

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Q 110

During preparation of Acetaldehyde from ethanol in laboratory, why acetaldehyde is distilled off quickly after formation?

- A To avoid decomposition of product
- B To avoid reduction
- C To avoid further oxidation to acetic acid
- D None of these

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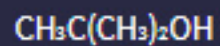
 Previous Question

Next Question 

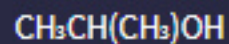
Q 111

Which of the following alcohol does not converted into carboxylic acid when react with $K_2Cr_2O_7/H_2SO_4$?

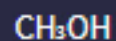
A



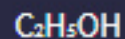
B



C



D



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Q 112

Critical temperature of ammonia is ____ °C

A

31.14

B

13.24

C

132.44

D

1.11

111

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Q 113

The severe reduction in population size is due to which of the following?

A genetic drift

B outbreeding

C inbreeding

D bottleneck

112

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Q 114

Spinal cord is the part of the:

A

Peripheral nervous system

B

Central nervous system

C

Autonomic nervous system

D

None of these

113

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Q 115

Gametes in animals are produced by which of the following?

A

mitosis

B

meiosis

C

fission

D

all of these

114

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Q 116

Lymphoid masses are present in the walls of:

A

digestive tract

B

mucosa

C

submucosa

D

all of these are correct

115

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Q 117

Which of the light is mainly absorbed by the plants?

A

Orange

B

Red

C

Green

D

Both A and B

116

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Q 118

When two or more clearly different phenotypes exists in same population of species, the phenomenon is called?

A replication

B polymorphism

C gene linkage

D gene expression

117

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Q 119

The substrate binds to specific region of enzyme called?

A

key

B

active site

C

hyperactive site

D

none of these

118

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Q 120

Which one is not the characteristic of Kingdom Animalia?

A

All animals are ingestive heterotrophs

B

All animals are eukaryotes

C

It is largest kingdom

D

All animals develop from the dissimilar gametes

119

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Q 121

What is a sarcomere?

A

The fibers that make up skeletal muscles

B

The smallest unit of a smooth muscle

C

A myosin fibril

D

The contractile unit of a muscle cell

120

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Q 122

What are Autophagosomes?

A

Those lysosomes which eat parts of their own cells to generate energy.

B

Those lysosomes which eat old and worn out cellular organelles.

C

Lysosomes which help in extracellular digestion

D

both a and b

121

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Q 123

Which of these transports sperm from the testis to the penis?

A

sperm duct

B

scrotum

C

urethra

D

gamete

122

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Q 124

Compound Microscope was first used by

A

A.V. Leeuwenhoek

B

Pasteur

C

Janssen and Hans

D

None of these

123

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Q 125

Who discovered the bacteria causing tuberculosis and also developed various techniques of media preparation and maintenance of pure culture?

A Robert Koch

B Louis Pasteur

C Alexander Fleming

D leeuwenhoek

124

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Q 126

Which element has function in opening and closing of stomata?

A

K

B

Mg

C

Cu

D

Fe

125

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Q 127

The darker, outer portion of the brain is called:

A White matter

B Gray matter

C Reflex arc

D Medulla

126

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Q 128

Which two reactions occur during photophosphorylation

- A ATP is hydrolysed and NADP is reduced.
- B ATP is hydrolysed and NADPH is oxidised.
- C ATP is synthesised and NADP is reduced.
- D ATP is synthesised and NADPH is oxidised

127

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Q 129

The transmission of genes to an organism's offspring is the basis of the inheritance of?

A genotypic traits

B physical traits

C phenotypic traits

D none of these

128

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Q 130

Lock and Key model was proposed by which of the following?

A Koshland

B Robin Williams

C Rudolph Virchow

D Emil Fischer

129

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Q 131

Which one of the following does not occur at puberty in girls?

A voice deepens

B pubic hair grow

C hips broaden

D menstrual cycle starts

130

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Q 132

Polychaeta have which of the following organs?

A tentacles

B palps

C eyes

D all of these

131

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Q 133

What type of virus is the smallpox virus?

A

DNA enveloped virus

B

RNA enveloped virus

C

DNA virus

D

RNA naked virus

132

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Q 134

From beginning of the 3rd month of pregnancy the human embryo is referred to as the?

A zygote

B foetus

C embryo

D all of these

133

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Q 135

Which is an organelle that helps the sperm to penetrate the ovum?

A

Megalis

B

Zona pellucida

C

Acrosome

D

both a and b

134

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Q 136

Essential fatty acids show all the characters except____

A

lipotropism

B

blood clotting factors

C

used for energy production

D

none of these

135

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Q 137

What molecule would you not expect to find in a retrovirus?

A

adenine

B

thymine

C

uracil

D

guanine

136

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Q 138

Carbon dioxide is fixed in

A light reaction

B dark reaction

C aerobic respiration

D anaerobic respiration

137

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Q 139

In which year was the AIDs virus named?

A

1986

B

1980

C

1992

D

1970

138

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Q 140

The actual remains or traces of organisms that lived in ancient geological times are known as?

A Vestigial organs

B fuel

C fossils

D all of these

139

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Q 141

Coenzyme Q is oxidised by which coenzyme in the ETC?

A Coenzyme c

B coenzyme q

C cytochrome b

D cytochrome a

140

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Q 142

In a certain species of feline, all males are much larger than females. Members of either sex that are of intermediate size struggle to find mates. What principle best describes this phenomenon?

- A Bottleneck affect
- B Directional selection
- C Genetic drift
- D Disruptive selection

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Q 143

The stretch reflex is also known as:

A stretch reflex

B spinal reflex

C golgi tendon reflex

D myotatic reflex

142

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Q 144

The functional parts of forebrain are:

A

thalamus and limbic system

B

cerebrum, limbic system and thalamus

C

thalamus and cerebrum

D

cerebrum and limbic system

143

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Q 145

Pancreas produces secretory granules that help in digestion. These granules after passing through endoplasmic reticulum are pinched off from _____ surface of Golgi apparatus?

A forming phase

B maturing phase

C any of these

D none of these

144

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Q 146

Which statement is incorrect?

A

Homologous organs are functionally different but structurally alike

B

Examples of homologous structures are arms of man, forelimb of cat, flipper of whale

C

Examples of analogous structures are wings of bats, birds and insects

D

Analogous organs are functionally different but structurally alike

145

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Q 147

Pinworm is a common name used for which of the following?

A

Rhabditis

B

Ancylostoma duodenale

C

Taenia solium

D

Enterobius vermicularis

146

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Q 148

These animals have three germinal layers but no coelom.

A Flat worms

B Round worms

C Cnidarians

D Chordates

147

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Q 149

Which of the following answer options is not a function of the sarcolemma?

- A Controls the tonic state of myocytes
- B Creates an ion potential across the muscle surface
- C Allows attachment sites for communication hormones
- D Controls the iron levels of cardiac tissue

148

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Q 150

ATP molecules are consumed during which process?

A

Glycolysis

B

Krebs cycle

C

light dependent phase

D

none

149

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Next Question 

Q 151

Striated skeletal muscle cells are under:

A voluntary control

B involuntary control

C Both A and B

D None of these

150

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Q 152

Which of the following components of an animal cell would NOT also be observed in a bacterial cell?

A nucleus

B cell membrane

C ribosomes

D DNA

151

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Q 153

Sex pili is formed in which of the following processes?

A sexual reproduction

B binary fission

C mitosis

D conjugation

152

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Q 154

Which of these acts as a relay centre connecting hindbrain with the forebrain

A Forebrain

B Midbrain

C Hindbrain

D Limbic system

153

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Q 155

Which of the following is an example of deep reflexes?

A

ankle jerk

B

Knee jerk

C

abdominal reflex

D

Both A and B

154

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Q 156

What is the breathing rate in humans during exercise?

A 15-20 times per minute

B 10-20 times per minute

C 20 times per minute

D 30 times per minute

155

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Q 157

Incomplete dominance is also termed as which of the following?

A half dominance

B codominance

C partial dominance

D none of these

156

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Q 158

The oviduct generally called:

A fallopian tube

B uterine tube

C Both A and B

D uterus

157

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Q 159

What is correct about myoglobin?

A It is iron containing protein pigment

B It occurs in muscle fibers

C It also stores some oxygen

D All A,B and C are correct

158

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Q 160

Which one gives blue colour when subjected to an iodine test?

A

starch

B

glycogen

C

cellulose

D

none of these

159

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Q 161

Exoskeleton of coelenterates is made up of which of the following material?

A Calcium

B Silica

C chitin

D lignin

160

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Q 162

Approximately how many species of bacteria are known to cause diseases in humans?

A 100

B 150

C 200

D 250

161

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Q 163

What is not a part of protoplasm?

A

Capsule of bacteria

B

Nucleus

C

Cell membrane

D

Mitochondria

162

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Q 164

Modifications of proteins and lipids as glycoproteins and lipoproteins occur in which of the following structures?

A Ribosomes

B SER

C ER

D golgi apparatus

163

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Q 165

How is pyruvate produced in anaerobic conditions?

A

alcoholic fermentation

B

lactic acid fermentation

C

respiration

D

both a and b

164

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Q 166

Which of the following is not present in mitochondria?

A enzymes

B coenzymes

C ribosomes

D thylakoid

165

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Q 167

The pay-off phase of glycolysis conserved the

A molecules of glucose

B molecules of fructose

C ATP

D water

166

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Q 168

Which of these is common is both lymph vessels and veins?

A Both have small bore

B both have valves

C both have low blood pressure

D both are communicated

167

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Q 169

What is the approximate diameter of the peroxisome?

A 0.5 micrometer

B 1.5 micrometer

C 2 micrometer

D 1 micrometer

168

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Q 170

Ascaris is characterized by which of the following?

- A Presence of true coelom and metamerism
- B Presence of true coelom but the absence of metamerism
- C Absence of true coelom but the presence of metamerism
- D Absence of true coelom and metamerism

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Q 171

A huge micro organism Acanthurus named nigrofusus discovered in intestine of brown surgeonfish

A a bacterium

B a virus

C a parasite

D protozoa

170

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Q 172

The composition of the white matter of spinal cord is:

- A myelinated dendrite
- B non-myelinated dendrite
- C non-myelinated axon
- D myelinated axon

171

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Q 173

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A iron

B zircon

C diamond

D cadmium

172

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Q 174

These animals have only left aortic arch in their circulatory system.

A

Crocodiles and mammals.

B

Birds and mammals.

C

Mammals only.

D

All of the above.

173

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Next Question 

Q 175

The last common ancestor of humans is known to be which of the following?

A

Homo neanderthalensis

B

Lemuroidea

C

Dromaeosaurus

D

Pan troglodytes

174

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Q 176

The follicle cells, after release of the egg, are modified to form a special structure called:

A Endometrium

B Perimetrium

C Corpus luteum

D None of these

175

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Q 177

The viral DNA or RNA is protected by

A

shell of lipids

B

shell of proteins

C

shell of carbohydrates

D

shell of amino acids

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Q 178

A type of joint found at the articulation between teeth and the sockets of the maxilla

A Syndesmosis

B sutures

C Gomphosis

D None of these

177

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Q 179

Fertilization of human egg occurs in:

A

ovary

B

uterus

C

oviduct (fallopian tube)

D

cervix

178

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Q 180

Which of the following virus is enveloped?

A adenovirus

B herpes virus

C poliovirus

D none of these

179

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Q 181

She returned after _____ hour.

A

a

B

an

C

the

D

no article

180

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Q 182

Have you _____ the examination?

A take

B took

C taken

D taking

181

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Next Question 

Q 183

Did I say anything to make you angry?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

182

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Q 184

Let me _____ the candle from the cake.

A

switch off

B

blow out

C

extinguish

D

eliminate

183

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Q 185

Some of the books on the table _____ to me.

A belong

B belonging

C belongs

D was belong

184

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Q 185

Some of the books on the table _____ to me.

A belong

B belonging

C belongs

D was belong

184

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Next Question 

Q 185

Some of the books on the table _____ to me.

A belong

B belonging

C belongs

D was belong

184

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Q 186

Choose the correct spelling of the word

A something

B somthing

C sumthing

D sumthin

185

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Next Question 

Q 187

Choose the correct sentence.

A

Myra and her family are spending the summer at attabad lake.

B

Myra and her family are spending the summer at attabad lake!

C

Myra and her family are spending the summer at Attabad lake.

D

Myra and her family are spending the summer at Attabad Lake.

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Q 188

Which one is future tense?

A

I will pay for you

B

I am coming

C

They are going

D

They were present

187

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Q 189

Sam _____ his homework at night.

A

do

B

doing

C

is doing

D

does

188

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Q 190

A ship (A)/ laden with mechandise (B)/ got drowned (C)/ in the Pacific Ocean. (D)

A

A ship

B

laden with mechandise

C

got drowned

D

in the Pacific Ocean.

189

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Q 191

I have lost my way.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

190

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Next Question 

Q 192

Both of the dogs _____ collars.

A has

B have

C having

D are having

191

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Q 193

We _____ home before the rain starts.

A

shall have reached

B

shall reach

C

shall have reaches

D

shall have reaching

192

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Q 194

Many of the city's narrow streets have been _____.

A distinguished

B widened

C rehabilitated

D doubled

193

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Q 195

We are trying (A)/ to locate the (B) /historical city for(C) /the past two years. (D)

A

We were trying

B

to locate the

C

historical city for

D

the past two years.

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Q 196

would not

A

would'nt

B

wouldn't

C

woul'dnt

D

wouldnt'

195

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Q 197

Everything ____ fine when it's done correctly.

A

work

B

worked

C

will work

D

works

196

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Q 198

If mountains are _____ of trees, rains will soon wash the fertile topsoil down the slope to end as useless silt below.

A deforested

B afforested

C stripped

D shortage

197

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Q 199

I lived on _____ Main Street when I first came to town.

A

a

B

an

C

the

D

no article

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Q 200

The students were (A)/ awaiting for (B)/ the arrival of (C)/ the chief guest. (D)

A

The students were

B

awaiting for

C

the arrival of

D

the chief guest.

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Q 201

Statements (I) She topped in her collage (II) She is hard-working)

A

both statements are of some common cause

B

statement 1 is the cause then 2 is its effect

C

statement 2 is the cause then 1 is its effect.

D

both of the statements are effect of independent causes

200

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Q 202

Which letter lies in the middle of word Quality?

A

L

B

A

C

U

D

Y

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Q 203

Fact 1 Some pens don't write Fact 2 Only blue pens write Fact 3 some writing utensils are pens If the above three statements are facts than which of the following statement will also be a fact I. Some writing utensils don't write II. Some writing utensils are blue III. Some blue writing utensils don't write

- A Only III
- B Only I and II
- C Only I
- D Only III and II

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Q 204

Balloons are filled with

A

Nitrogen

B

Helium

C

Oxygen

D

Both A and B

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Q 205

Statement Should religion be banned? Arguments (I) Yes. It develops fanaticism in people. (II) No, Religion binds people together.

A Only argument I is strong

B Only argument II is strong

C Either I or II is strong

D Neither I nor II is strong

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Q 206

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A Both of them follows

B None of them follows

C Only I follows

D Only II follows

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Q 207

I. The construction of dams has created an obstruction in migration of the animals. II. The animals of Amazon have turned into ferocious beasts, that are damaging the property as well as a threat for the lives of people.

A Statement I is the cause and statement II is its effect.

B Statement II is the cause and statement I is its effect.

C Both statements I and II are independent causes

D None of these

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Q 208

Look at this series 5.2, 4.8, 4.4, 4. What number should come next

A 3

B 3.3

C 3.5

D 3.6

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Q 209

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company

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Q 209

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company

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Q 210

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max

209

SKIPPED QUESTIONS 



Q1

The specific resistance of a rod of copper as compared to that of thin wire of copper is :

A

less

B

more

C

same

D

depends upon the length and area of cross-section of the wire



Question 2/210

Q2

Radiation emitted by hot bodies have color

A

red

B

green

C

blue

D

black

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Q3

The compound or complex ion which has a ring in its structure

A

Polydentate ligand

B

Chelate

C

Monodentate ligand

D

Hydrate

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Question 4/210

Q4

Greater the number of moles ,_____ will be the number of molecules

A

lesser

B

moderate

C

greater

D

equal

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Q5 How many organic compounds are known _____?

A 850000

B Over 6 million

C 6 million

D 5 million

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Q6

What will happen in a time of 7 hours, if a radioactive substance has an average life of 7 hours?

A

Half of the active nuclei decay

B

less half of the active nuclei decay

C

more than half of the active nuclei decay

D

total nuclei decay

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Question 7/210

Q7

The characteristic x-rays are formed due to bombardment of ____

A

photon

B

proton

C

electron

D

none of these

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[Next Question →](#)



Question 8/210

Q8

The SI Unit for resistance is?

A

Ohm

B

Ampere

C

Watt

D

Volts

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Q9

The distance between two consecutive crests of a travelling wave is 10 cm. If the speed of the wave 50 cm/s, then its frequency would be:....

A

40 Hz

B

 $1/5$ Hz

C

5 Hz

D

500 Hz

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Q10

Object A has a charge of 15 mC, and object B has a charge of 10 mC. Which statement is true about the electric forces on the objects?

A

$$F_{AB} = -3 F_{BA}$$

B

$$F_{AB} = - F_{BA}$$

C

$$3 F_{AB} = - F_{BA}$$

D

$$-3 F_{AB} = 2 F_{BA}$$



Q11

A wire of uniform area of cross-section A and length L is cut into two equal parts, the resistivity of each part is

A

Doubled

B

Half

C

Remains the same

D

increase three times



Q12

For ideal step up transformer P_s ___ P_p .

A

equal to

B

greater than

C

less than

D

none of these

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Q13

All changes which occur suddenly or which involve friction or dissipation of energy through conduction, convection or radiation are:....

A

irreversible changes

B

chemical changes

C

cyclic changes

D

reversible changes



Q14

If an object moves with constant velocity then its acceleration is

A

zero

B

nonzero

C

infinite

D

none of these

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Q15

A body performing circular motion with a constant speed has a constant :

A

momentum

B

angular velocity

C

acceleration

D

radius vector

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Question 16/210

Q16

"The heat required to raise the temperature of one mole of the substance through 1 K" is called:...

A

specific latent heat

B

molar heat capacity

C

molar specific heat

D

specific heat capacity

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Question 17/210

Q17

Centrifuge is used to purify

A

U

B

H

C

O

D

N

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Q18

Magnetic flux density is a

A

scalar quantity

B

vector quantity

C

sometimes scalar sometimes vector

D

none of these

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Q19

A test charge of $23 \mu\text{C}$ is at a point P where an external electric field is directed to the left and has a magnitude of $3.1 \times 10^6 \text{ N/C}$. If the test charge is replaced with another test charge of $13 \mu\text{C}$, what happens to the external electric field at P?

A

it remains same

B

it reverses direction

C

it changes in a way that cannot be determined

D

 $3.1 \times 10^5 \text{ N/C}$



Q20

If $r=1\text{m}$ and $\theta=1$ degree then what is the value of S

A

0.01745m

B

1m

C

2m

D

None

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Question 21/210

Q21

The star which is very hot will emit ____ color

A

Blue

B

red

C

orange

D

green

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Q22

How many down quarks in Neutron

A

1

B

2

C

3

D

4

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Q23

A stone of 1 kg is thrown upward it reaches a max height of 5 m , work done by the gravity is

A

50 J

B

49 J

C

-49 J

D

55 J

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Q24

Light of wavelength 450 nm is incident on a diffraction grating on which 5000 lines/cm have been ruled. How many orders of spectra can be observed on either side of the direct beam?

A

1

B

2

C

3

D

4



Q25

A gardener move a lawn roller through a distance of 50 m. Applied force is 50 N inclined at 60 degree of direction of motion what will be the work done by the gardener

A

1250 J

B

2500 J

C

-1250 J

D

-2500 J



Q26

The value of acceleration due to gravity on earth is

A

 5 m/s^2

B

 6 m/s^2

C

 15 m/s^2

D

 9.8 m/s^2 [< Previous Question](#)[Next Question >](#)



Q27

If $P = P_0$ and $V = V_0$ gas expands isothermally to $P = 3P_0$ then Volume is

A

 $3V_0$

B

 $2V_0$

C

 $V_0/3$

D

 $V_0/2$ [< Previous Question](#)[Next Question >](#)



Q28

Newton's second law states that the rate of change of _____ is equal to external force

A

velocity

B

Mass

C

momentum

D

position

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Q29

If the peak to peak voltage is 10V, calculate the peak voltage.

A

2V

B

10V

C

4V

D

5V

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Question 30/210

Q30

Total charge on any nucleus is

A

Ne

B

Wq

C

Ze

D

ne

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Q31

When a body moves in a circle of radius r with angular speed ω , its centripetal acceleration is

A

ωr

B

$\omega^2 r$

C

ωr^2

D

ω/r

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Q32

Energy of photon is directly proportional to its :

A

Temperature

B

Frequency

C

Wave length

D

None of the above

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Q33

A rectangular loop of dimension 3 cm by 5 cm is placed perpendicular in uniform magnetic field of 0.1 T, find the magnetic flux through the loop

A

1.5 wb

B

0.15 wb

C

0.015 wb

D

15 wb

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Q34

Superposition of two waves having same frequency, same amplitude and travelling in the opposite direction, is called:

A

interference

B

diffraction

C

beats

D

stationary waves

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Q35

Find the force due to a current element of length 2 cm and flux density of 12 tesla. The current through the element will be 5A.

A

1N

B

1.2N

C

1.4N

D

1.6N

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Q36

The minimum indivisible unit of charge is:....

A

one coulomb

B

charge on one alpha particle

C

charge on one proton

D

one micro coulomb

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Q37

If a certain piece of copper is to be shaped into a conductor of minimum resistance, its length (L) and cross-sectional area (a) shall respectively be

A

 $L, 2A$

B

 $L/2, 2A$

C

 $2L, 2A$

D

 $2L, A/2$ [< Previous Question](#)[Next Question >](#)



Q38

Instantaneous velocity is defined as

A

$$dx/dt$$

B

$$\Delta x/\Delta t$$

C

$$\Delta x.\Delta t$$

D

$$\Delta v/\Delta t$$

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Q39

Peak voltage in the output of full wave rectifier is 10V so dc component of output voltage is

A

$10\sqrt{2}$

B

$20/\sqrt{2}$

C

$20/\pi$

D

20π

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Q40

In which rectifier ripple factor is less

A

full wave

B

half wave

C

both a) and b)

D

none of them

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Q41

Oil droplets of mass m and charge q are dropped between two horizontal parallel plates. Air resistance is negligible. The droplets are falling at constant velocity when electric field strength between the plates is E . Which of the following is true?

A

$E=0$

B

$E < mg/q$

C

$E = mg/q$

D

$E > mg/q$



Q42

If a car moves from 15 m/s to 5 m/s in 10 sec then average acceleration is

A

1 m/s²

B

2m/s²

C

5 m/s²

D

10m/s²

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Q43

Magnetic force between two wires which are having current in opposite direction will

A

attract each other

B

repel each other

C

experience no force between them

D

none of these

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Q44

A tuning fork A produces 4 beats with another tuning fork B. if the frequency of tuning fork B is 320 Hz, then the frequency of tuning fork A is:

A

$320 * 4$

B

$320 / 4$

C

$320 + 4$

D

320

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Q45

The activity of a certain nuclei decreases to 15 % of its original value in 10 days. Find its half life?

A

2 days

B

2. days

C

3.65 days

D

4 days

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Q46

Two tuning forks produces N beats. If one of these tuning forks has the frequency f , then the frequency of the other would be:

A

 $N - f$

B

 N / f

C

 $N * f$

D

 $N + f$



Question 47/210

Q47

A half wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be

A

100 Hz

B

25 Hz

C

200Hz

D

50Hz

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Q48

Kinetic energy of the body is increased by the 21 %. what is the percentage change in the linear momentum of the body

A

0.21

B

0.22

C

0.11

D

0.1

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Q49

4000 Coulomb charges were passing from the wire for about 12 seconds. Estimate the current during this process?

A

333.3 ampere

B

333.33 volts

C

666.67 ampere

D

None of them

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Q50

Radioactive material decays by simultaneous emission of two particles with respective half-lives 1620 and 810 years. The time, in years, after which one-fourth of the material remains?

A

1080

B

2430

C

3240

D

4860

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Q51

P-V diagram of a diatomic gas is a straight line passing through origin. What is the molar heat capacity of the gas in the process?

A

 R

B

 $1.5R$

C

 $3R$

D

 $4R/3$ [< Previous Question](#)[Next Question >](#)



Q52

gamma rays are attracted towards

A

negative plate

B

positive plate

C

no deflection

D

pass through the medium



Q53

If angular frequency is doubled, centripetal force is

A

twice

B

four times

C

eight times

D

remain same

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Q54

The outermost s and p orbitals of Noble gases are completely filled that why they are

A

stable, reactive

B

stable ,uncreative

C

unstable, reactive

D

unstable ,uncreative



Q55

When an electron remains between orbit, its momentum is

A

dequantized

B

quantized

C

emitted

D

changes always

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Q56

Specific Rate constant changes its value with

A

Time Constant

B

Change in Temperature

C

Change in Concentration

D

Change in Pressure

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Q57

Butyric acid is derived from the word butyrum which means_____?

A

Milk

B

Butter

C

Cheese

D

None of these

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Q58

The forces present within a molecule are called as _____?

A

Intermolecular forces

B

Van der Waal forces

C

Chemical bond

D

Weak forces

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Question 59/210

Q59

Molten sodium burns with brilliant yellow flame in a chlorine atmosphere to form ____?

A

NaCl

B

NaOH

C

NaBr

D

ClO

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Q60

Which of the uranium isotope have larger mass.

A

6.22×10^{23} atoms of U - 235

B

6.22×10^{23} atoms of U - 238

C

6.22×10^{23} atoms of U - 234

D

all of these



Q61

During industrial preparation of methanol, the catalyst is heated upto

A

4 - 5 °C

B

5 - 55 °C

C

45 - 5 °C

D

35 - 4 °C

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Q62

On earth, plasma occurs in few limited places like

A

auroras'

B

flames

C

bolts

D

all of these

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Q63

Left handed helix in proteins secondary structure is called as ____?

A

Alpha helix

B

Beta helix

C

Spiral

D

Concentrate

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Q64

A very small value of K_c depicts

A

No Reaction

B

Backward Reaction

C

Little Forward Reaction

D

Complete Reaction

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Question 65/210

Q65

Non- protein part co- factor includes organic & metallic organic molecule & sometimes _____.

A

Vitamins

B

DNA

C

Coenzyme

D

None

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Q66

Which of the following method is used to prepare Ethylene glycol from ethene?

A

Dehydration

B

Hydroxylation

C

Hydration

D

Luca's test

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Q67

1st series of transition elements start from?

A

Sc

B

Y

C

La

D

Cd

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Q68

Enthalpy of a system is also called as ____?

A

Entropy

B

Work function

C

Total heat content

D

Internal energy

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Q69

Which of the following ion is stable ?

A

Ethoxide ion

B

Tertiary Alkoxide ion

C

Secondary anion

D

Phenoxide ion

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Q70

Nucleophilic reactions of carboxylic acids are due to _____?

A

Presence of OH bond

B

Presence of C-O single bond

C

Presence of C-O double bond

D

None of these

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Q71

In diaphragm cell level of brine in the anode compartment is kept slightly higher which prevents

A

Hydroxide ions to reach the anode

B

Chlorine gas to mix

C

Cathode to decay

D

All of the above

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Q72

How will the conditions be changed to prevent the volume of the given gas from expanding when its mass is increased

A

temperature and pressure increased

B

temperature is lowered and pressure decreased

C

temperature and pressure increased

D

temperature is lowered and pressure increased



Q73

Aldehydes are obtained by the oxidation of which of the following ?

A

Secondary alcohols

B

Tertiary alcohols

C

Dihydric alcohol

D

Primary alcohols

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Q74

Rate constant is denoted by?

A

k

B

kr

C

kv

D

ks

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Q75

Rate = $k [\text{NO}_2]$, the order of this reaction is

A

Zero

B

Two

C

Three

D

One

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Q76

Benzene is extra stable because of _____?

A

Cyclic structure

B

Three alternating double and single bonds

C

Delocalization of pi-electrons

D

All of these

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Q77

In the reaction of NaBH_4 with aldehyde and ketones, which of the following act as Nucleophile ?

A

 B^-

B

 H^-

C

 BH_2^-

D

 NaBH_3^- [< Previous Question](#)[Next Question >](#)



Q78

If a hydrogen atom remains in its first excited level, how many times will its radius be greater than Bohr's radius

A

twice

B

four times

C

same, same

D

eight times

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Question 79/210

Q79

Glass is an example of

A

ionic solid

B

covalent solid

C

pseudo solid

D

semisolid

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Q80

Electron affinity is the measure of ____ for extra electron

A

repulsion of electron

B

attraction of electron

C

attraction of nucleus

D

repulsion of nucleus



Q81

In the enthalpy relation, $\Delta H = (q)p + \Delta(PV)$ the value $\Delta(PV)$ can be neglected for the reactions involving ____?

A

Gases

B

Liquids

C

Liquids and solids

D

Liquids and Gases

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Question 82/210

Q82

Hydrogen bonding is involved in

A

cleansing action of soap

B

biological molecule

C

solubility

D

all of these

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Q83

How many molecules of H_2 adds in acetylene to form ethane?

A

1

B

3

C

4

D

2

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Q84

A full stop may have _____ atoms present in it

A

one million

B

two millions

C

one billion

D

two billions

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Q85

Which of following is trihydric alcohol

A

Glycol and cyclohexanol

B

glycerol

C

ethylene glycol

D

resorcinol

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Q86

What is the value of molecularity and order of S_N1 reactions?

A

2,1

B

1,1

C

0,1

D

0,2

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Question 87/210

Q87

Water is considered as a Universal solvent because of which properties?

A

Polar nature of water

B

H-bonding

C

Electronegativity difference

D

All are correct

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Q88

With which of the following Grignard reagents react to form Alkanes ?

A

Ammonia

B

Water

C

Methanol

D

All of these

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Q89

Solubility of carboxylic acids _____?

A

Decreases with increase of volume

B

Decreases with increase in molecular mass

C

Increases with increase in molecular mass

D

None of these

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Question 90/210

Q90

Arrangement of metals on the basis of their electrode potentials on standard hydrogen scale is called

A

Reactivity Series

B

Potential Difference

C

Activated Potential

D

Electrochemical Series

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Q91

Formic acid is obtained from _____?

A

Apples

B

Butter

C

Ant's sting

D

Foam

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Q92

Among halogens iodine is solid at room temperature while Br_2 is liquid and Cl_2 are gases at room temperature, why?

A

Due to stronger dipole forces

B

Due to polarity

C

Due to stronger London forces

D

Due to stronger Debye forces

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Q93

Which of the following family is linked with plant ashes ?

A

Nitrogen Family

B

Alkali metals

C

Rare earth metals

D

Oxygen Family

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Q94

Caustic Soda is made by electrolysis of concentrated solution of NaCl in

A

Nelson's Cell

B

Hg - Cell

C

Castner Kellner Cell

D

All of these

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Q95

In which of the following benzene is isolated?

A

Naphthalene

B

Diphenyl ethane

C

Phenanthrene

D

Anthracene

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Question 96/210

Q96

Carboxylase are example of which type of enzyme:

A

Hydrolases

B

Lyases

C

Transferases

D

Ligases

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Question 97/210

Q97

The catalyst in the formation of ester from alcohol and a weak acid is

A

A base

B

Palladium

C

Nickel

D

A mineral Acid

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Q98

Quantum number values for 2p orbitals are

A

 $n = 2, l = 1$

B

 $n = 1, l = 2$

C

 $n = 1, l =$

D

 $n = 2, l =$ [< Previous Question](#)[Next Question >](#)



Question 99/210

Q99

As the hydrolysis of ester proceeds more and more acid is formed giving a

A

Rising curve

B

Falling Curve

C

Straight line

D

None of these

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Q100

If in a solution of alkyl halide in a nonpolar solvent, base is added which of the following reaction takes place?

A

 SN_2

B

 E_1

C

 SN_1

D

 E_2 [< Previous Question](#)[Next Question >](#)



Q101

During preparation of Acetaldehyde from ethanol in laboratory, why acetaldehyde is distilled off quickly after formation?

A

To avoid decomposition of product

B

To avoid reduction

C

To avoid further oxidation to acetic acid

D

None of these

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Question 102/210

Q102

Critical temperature of ammonia is _— C

A

31.14

B

13.24

C

132.44

D

1.11

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Q103

The severe reduction in population size is due to which of the following?

A

genetic drift

B

outbreeding

C

inbreeding

D

bottleneck

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Q104

Spinal cord is the part of the:

A

Peripheral nervous system

B

Central nervous system

C

Autonomic nervous system

D

None of these

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Q105

Gametes in animals are produced by which of the following?

A

mitosis

B

meiosis

C

fission

D

all of these

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Question 106/210

Q106

Lymphoid masses are present in the walls of:

A

digestive tract

B

mucosa

C

submucosa

D

all of these are correct

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Q107

When two or more clearly different phenotypes exists in same population of species, the phenomenon is called?

A

replication

B

polymorphism

C

gene linkage

D

gene expression

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Q108

The substrate binds to specific region of enzyme called?

A

key

B

active site

C

hyperactive site

D

none of these

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Q109

Which one is not the characteristic of Kingdom Animalia?

A

All animals are ingestive heterotrophs

B

All animals are eukaryotes

C

It is largest kingdom

D

All animals develop from the dissimilar gametes



Q110

What is a sarcomere?

A

The fibers that make up skeletal muscles

B

The smallest unit of a smooth muscle

C

A myosin fibril

D

The contractile unit of a muscle cell



Q111

What are Autophagosomes?

A

Those lysosomes which eat parts of their own cells to generate energy.

B

Those lysosomes which eat old and worn out cellular organelles.

C

Lysosomes which help in extracellular digestion

D

both a and b



Question 112/210

Q112

Which of these transports sperm from the testis to the penis?

A

sperm duct

B

scrotum

C

urethra

D

gamete

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Question 113/210

Q113

Who discovered the bacteria causing tuberculosis and also developed various techniques of media preparation and maintenance of pure culture?

A

Robert Koch

B

Louis Pasteur

C

Alexander Fleming

D

leeuwenhoek

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Q114

Which element has function in opening and closing of stomata?

A

K

B

Mg

C

Cu

D

Fe

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Q115

The darker, outer portion of the brain is called:

A

White matter

B

Gray matter

C

Reflex arc

D

Medulla

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Q116

Which two reactions occur during photophosphorylation

A

ATP is hydrolysed and NADP is reduced.

B

ATP is hydrolysed and NADPH is oxidised.

C

ATP is synthesised and NADP is reduced.

D

ATP is synthesised and NADPH is oxidised



Q117

The transmission of genes to an organism's offspring is the basis of the inheritance of?

A

genotypic traits

B

physical traits

C

phenotypic traits

D

none of these

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Q118

Lock and Key model was proposed by which of the following?

A

Koshland

B

Robin Williams

C

Rudolph Virchow

D

Emil Fischer

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Question 119/210

Q119

Which one of the following does not occur at puberty in girls?

A

voice deepens

B

pubic hair grow

C

hips broaden

D

menstrual cycle starts

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Q120

What type of virus is the smallpox virus?

A

DNA enveloped virus

B

RNA enveloped virus

C

DNA virus

D

RNA naked virus

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Question 121/210

Q121

From beginning of the 3rd month of pregnancy the human embryo is referred to as the?

A

zygote

B

foetus

C

embryo

D

all of these

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Q122

Which is an organelle that helps the sperm to penetrate the ovum?

A

Megalis

B

Zona pellucida

C

Acrosome

D

both a and b

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Q123

Essential fatty acids show all the characters except____

A

lipotropism

B

blood clotting factors

C

used for energy production

D

none of these



Q124

What molecule would you not expect to find in a retrovirus?

A

adenine

B

thymine

C

uracil

D

guanine

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Q125

Carbon dioxide is fixed in

A

light reaction

B

dark reaction

C

aerobic respiration

D

anaerobic respiration

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Question 126/210

Q126

In which year was the AIDs virus named?

A

1986

B

1980

C

1992

D

1970

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Q127

Coenzyme Q is oxidised by which coenzyme in the ETC?

A

Coenzyme c

B

coenzyme q

C

cytochrome b

D

cytochrome a

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Q128

In a certain species of feline, all males are much larger than females. Members of either sex that are of intermediate size struggle to find mates. What principle best describes this phenomenon?

A

Bottleneck affect

B

Directional selection

C

Genetic drift

D

Disruptive selection

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Q129

The stretch reflex is also known as:

A

stretch reflex

B

spinal reflex

C

golgi tendon reflex

D

myotatic reflex

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Q130

The functional parts of forebrain are:

A

thalamus and limbic system

B

cerebrum, limbic system and thalamus

C

thalamus and cerebrum

D

cerebrum and limbic system

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Q131

Pancreas produces secretory granules that help in digestion. These granules after passing through endoplasmic reticulum are pinched off from _____ surface of Golgi apparatus?

A

forming phase

B

maturing phase

C

any of these

D

none of these



Q132

Which statement is incorrect?

A

Homologous organs are functionally different but structurally alike

B

Examples of homologous structures are arms of man, forelimb of cat, flipper of whale

C

Examples of analogous structures are wings of bats, birds and insects

D

Analogous organs are functionally different but structurally alike



Q133

Pinworm is a common name used for which of the following?

A

Rhabditis

B

Ancylostoma duodenale

C

Taenia solium

D

Enterobius vermicularis

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Question 134/210

Q134

These animals have three germinal layers but no coelom.

A

Flat worms

B

Round worms

C

Cnidarians

D

Chordates

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Question 135/210

Q135

ATP molecules are consumed during which process?

A

Glycolysis

B

Krebs cycle

C

light dependent phase

D

none

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Q136

Striated skeletal muscle cells are under:

A

voluntary control

B

involuntary control

C

Both A and B

D

None of these

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Q137

Which of the following components of an animal cell would NOT also be observed in a bacterial cell?

A

nucleus

B

cell membrane

C

ribosomes

D

DNA

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Q138

Sex pili is formed in which of the following processes?

A

sexual reproduction

B

binary fission

C

mitosis

D

conjugation



Question 139/210

Q139

Which of these acts as a relay centre connecting hindbrain with the forebrain

A

Forebrain

B

Midbrain

C

Hindbrain

D

Limbic system

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Q140

Which of the following is an example of deep reflexes?

A

ankle jerk

B

Knee jerk

C

abdominal reflex

D

Both A and B



Q141

What is the breathing rate in humans during exercise?

A

15-20 times per minute

B

10-20 times per minute

C

20 times per minute

D

30 times per minute

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Question 142/210

Q142

The oviduct generally called:

A

fallopian tube

B

uterine tube

C

Both A and B

D

uterus

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Q143

What is correct about myoglobin?

A

It is iron containing protein pigment

B

It occurs in muscle fibers

C

It also stores some oxygen

D

All A,B and C are correct



Q144

Which one gives blue colour when subjected to an iodine test?

A

starch

B

glycogen

C

cellulose

D

none of these

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Question 145/210

Q145

Exoskeleton of coelenterates is made up of which of the following material?

A

Calcium

B

Silica

C

chitin

D

lignin

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Question 146/210

Q146

Approximately how many species of bacteria are known to cause diseases in humans?

A

100

B

150

C

200

D

250

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Question 147/210

Q147

What is not a part of protoplasm?

A

Capsule of bacteria

B

Nucleus

C

Cell membrane

D

Mitochondria

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Question 148/210

Q148

Modifications of proteins and lipids as glycoproteins and lipoproteins occur in which of the following structures?

A

Ribosomes

B

SER

C

ER

D

golgi apparatus

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Q149

Which of the following is not present in mitochondria?

A

enzymes

B

coenzymes

C

ribosomes

D

thylakoid

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Q150

The pay-off phase of glycolysis conserved the

A

molecules of glucose

B

molecules of fructose

C

ATP

D

water

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Q151

Which of these is common is both lymph vessels and veins?

A

Both have small bore

B

both have valves

C

both have low blood pressure

D

both are communicated

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Q152

What is the approximate diameter of the peroxisome?

A

0.5 micrometer

B

1.5 micrometer

C

2 micrometer

D

1 micrometer

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Q153

Ascaris is characterized by which of the following?

A

Presence of true coelom and metamerism

B

Presence of true coelom but the absence of metamerism

C

Absence of true coelom but the presence of metamerism

D

Absence of true coelom and metamerism



Question 154/210

Q154

A huge micro organism Acanthurus named nigrofusus discovered in intestine of brown surgeonfish

A

a bacterium

B

a virus

C

a parasite

D

protozoa

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Q155

The composition of the white matter of spinal cord is:

A

myelinated dendrite

B

non-myelinated dendrite

C

non-myelinated axon

D

myelinated axon



Q156

The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.

A

iron

B

zircon

C

diamond

D

cadmium

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Q157

The last common ancestor of humans is known to be which of the following?

A

Homo neanderthalensis

B

Lemuroidea

C

Dromaeosaurus

D

Pan troglodytes

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Q158

The follicle cells, after release of the egg, are modified to form a special structure called:

A

Endometrium

B

Perimetrium

C

Corpus luteum

D

None of these



Q159

The viral DNA or RNA is protected by

A

shell of lipids

B

shell of proteins

C

shell of carbohydrates

D

shell of amino acids

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Q160

A type of joint found at the articulation between teeth and the sockets of the maxilla

A

Syndesmosis

B

sutures

C

Gomphosis

D

None of these

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Q161

Fertilization of human egg occurs in:

A

ovary

B

uterus

C

oviduct (fallopian tube)

D

cervix

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Question 162/210

Q162

Which of the following virus is enveloped?

A

adenovirus

B

herpes virus

C

poliovirus

D

none of these

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Q163

She returned after _____ hour.

A

a

B

an

C

the

D

no article

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Q164

Did I say anything to make you angry?

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q165

Let me _____ the candle from the cake.

A

switch off

B

blow out

C

extinguish

D

eliminate

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Question 166/210

Q166

Some of the books on the table _____ to me.

A

belong

B

belonging

C

belongs

D

was belong

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Question 167/210

Q167

Choose the correct spelling of the word

A

something

B

somthing

C

sumthing

D

sumthin

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Q168

Choose the correct sentence.

A

Myra and her family are spending the summer at attabad lake.

B

Myra and her family are spending the summer at attabad lake!

C

Myra and her family are spending the summer at Attabad lake.

D

Myra and her family are spending the summer at Attabad Lake.



Question 169/210

Q169

Which one is future tense?

A

I will pay for you

B

I am coming

C

They are going

D

They were present

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Q170

Sam _____ his homework at night.

A

do

B

doing

C

is doing

D

does

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Q171

I have lost my way.

A

Declarative

B

Imperative

C

Interrogative

D

Exclamatory

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Q172

Both of the dogs _____ collars.

A

has

B

have

C

having

D

are having

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Question 173/210

Q173

We _____ home before the rain starts.

A

shall have reached

B

shall reach

C

shall have reaches

D

shall have reaching

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Question 174/210

Q174

Many of the city's narrow streets have been _____.

A

distinguished

B

widened

C

rahabilitated

D

doubled

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Question 175/210

Q175

We are trying (A)/ to locate the (B) /historical city for(C) /the past two years. (D)

A

We were trying

B

to locate the

C

historical city for

D

the past two years.

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Q176

would not

A

would'nt

B

wouldn't

C

woul'dnt

D

wouldnt'

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Q177

Everything ____ fine when it's done correctly.

A

work

B

worked

C

will work

D

works

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Q178

If mountains are _____ of trees, rains will soon wash the fertile topsoil down the slope to end as useless silt below.

A

deforested

B

afforested

C

stripped

D

shortage

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Q179

The students were (A)/ awaiting for (B)/ the arrival of (C)/ the chief guest. (D)

A

The students were

B

awaiting for

C

the arrival of

D

the chief guest.

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Q180

Statements (I) She topped in her collage (II) She is hard-working)

A

both statements are of some common cause

B

statement 1 is the cause then 2 is its effect

C

statement 2 is the cause then 1 is its effect.

D

both of the statements are effect of independent causes



Q181

Which letter lies in the middle of word Quality?

A

L

B

A

C

U

D

Y

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Q182

Fact 1 Some pens don't write Fact 2 Only blue pens write Fact 3 some writing utensils are pens If the above three statements are facts than which of the following statement will also be a fact I. Some writing utensils don't write II. Some writing utensils are blue III. Some blue writing utensils don't write

A

Only III

B

Only I and II

C

Only I

D

Only III and II



Q183

Balloons are filled with

A

Nitrogen

B

Helium

C

Oxygen

D

Both A and B

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Q184

Which of the following is a type of rectifier

A

half wave

B

full wave

C

bridge

D

All of the above

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Q185

Which source is associated with a line emission spectrum

A

electric signal

B

neon street signal

C

red traffic light

D

signal

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Q186

The engine is supposed to work between 727 degree C and 227 degree C, then maximum possible efficiency is

A

 $\frac{1}{2}$

B

 $\frac{1}{4}$

C

 $\frac{3}{4}$

D

1

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Q187

Ripple factor of full wave rectifier is

A

1.21

B

0.6

C

0.482

D

0.9

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Q188

Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A

Both of them follows

B

None of them follows

C

Only I follows

D

Only II follows



Q189

I. The construction of dams has created an obstruction in migration of the animals. II. The animals of Amazon have turned into ferocious beasts, that are damaging the property as well as a threat for the lives of people.

A

Statement I is the cause and statement II is its effect.

B

Statement II is the cause and statement I is its effect.

C

Both statements I and II are independent causes

D

None of these



Q190

Look at this series 5.2, 4.8, 4.4, 4. What number should come next

A

3

B

3.3

C

3.5

D

3.6

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Q191

FESCO stands for _____

A

Faizabad Electricity Supply Company

B

Frontier Electricity Supply Company

C

Faisalabad Electric Supply Company

D

Federal Electric Supply Company



Q192

Children are in pursuit of a dog whose leash has broken. James is directly behind the dog. Ruby is behind James. Rachel is behind Ruby. Max is ahead of the dog walking down the street in the opposite direction. As the children and dog pass, Max turns around and joins the pursuit. He runs in behind Ruby. James runs faster and is alongside the dog on the left. Ruby runs faster and is alongside the dog on the right. Which child is directly behind the dog?

A James

B Ruby

C Rachel

D Max



Q193

Molecules of liquids are in constant state of motion, it causes

A

diffusion

B

evaporation

C

melting

D

both A & B

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Q194

The electron affinity of fluorine is less than chlorine as we move down the group, this deviation in behavior is due to its

A

small size

B

seven electron

C

thick electronic cloud

D

all of these



Question 195/210

Q195

Polychaeta have which of the following organs?

A

tentacles

B

palps

C

eyes

D

all of these

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Q196

Which of the following answer options is not a function of the sarcolemma?

A

Controls the tonic state of myocytes

B

Creates an ion potential across the muscle surface

C

Allows attachment sites for communication hormones

D

Controls the iron levels of cardiac tissue



Q197

In single slit diffraction, when wavelength λ increases:

A

width of central maxima increases

B

width of central maxima does not change

C

central maxima becomes brighter

D

width of central maxima decreases



Q198

A resistance of 40 Ohms is attached to a circuit having current of 300 Amp. Find its voltage.

A

12000 volts

B

15000 volts

C

20000 volts

D

300 volts

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Question 199/210

Q199

The actual remains or traces of organisms that lived in ancient geological times are known as?

A

Vestigial organs

B

fuel

C

fossils

D

all of these

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Q200

How is pyruvate produced in anaerobic conditions?

A

alcoholic fermentation

B

lactic acid fermentation

C

respiration

D

both a and b

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Q201

Have you _____ the examination?

A

take

B

took

C

taken

D

taking

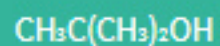
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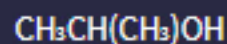
Q202

Which of the following alcohol does not converted into carboxylic acid when react with $K_2Cr_2O_7/H_2SO_4$?

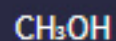
A



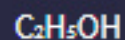
B



C



D





Q203

Which of the light is mainly absorbed by the plants?

A

Orange

B

Red

C

Green

D

Both A and B

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Question 204/210

Q204

I lived on _____ Main Street when I first came to town.

A

a

B

an

C

the

D

no article

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Q205

Statement Should religion be banned? Arguments (I) Yes. It develops fanaticism in people. (II) No, Religion binds people together.

A

Only argument I is strong

B

Only argument II is strong

C

Either I or II is strong

D

Neither I nor II is strong



Q206

Brass and bronze have one metal in common?

A

Zn

B

Hg

C

Cu

D

Fe

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Q207

Incomplete dominance is also termed as which of the following?

A

half dominance

B

codominance

C

partial dominance

D

none of these

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Q208

Compound Microscope was first used by

A

A.V. Leeuwenhoek

B

Pasteur

C

Janssen and Hans

D

None of these

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Q209

These animals have only left aortic arch in their circulatory system.

A

Crocodiles and mammals.

B

Birds and mammals.

C

Mammals only.

D

All of the above.

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Question 210/210

Q210

A ship (A)/ laden with mechandise (B)/ got drowned (C)/ in the Pacific Ocean. (D)

A

A ship

B

laden with mechandise

C

got drowned

D

in the Pacific Ocean.

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